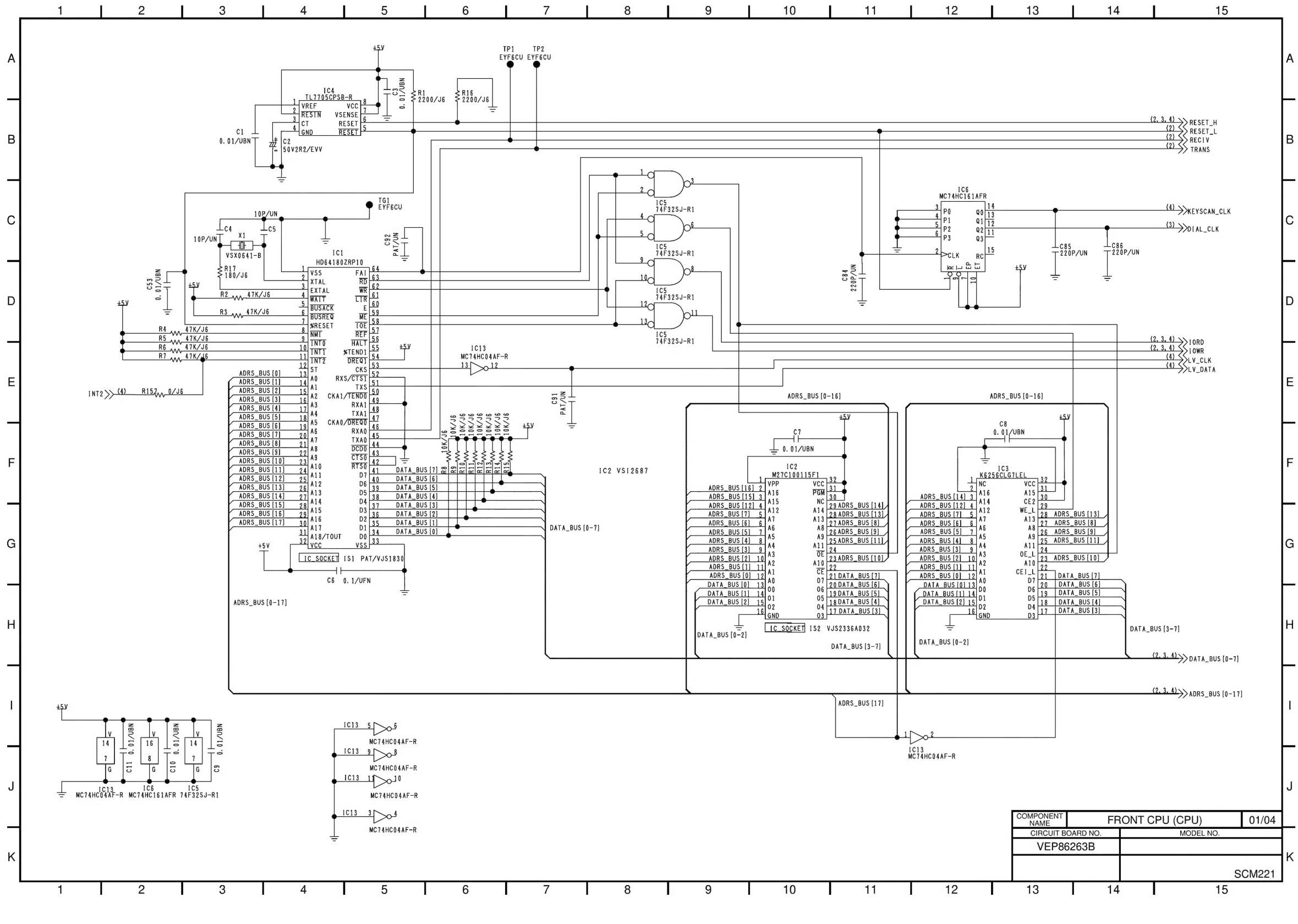
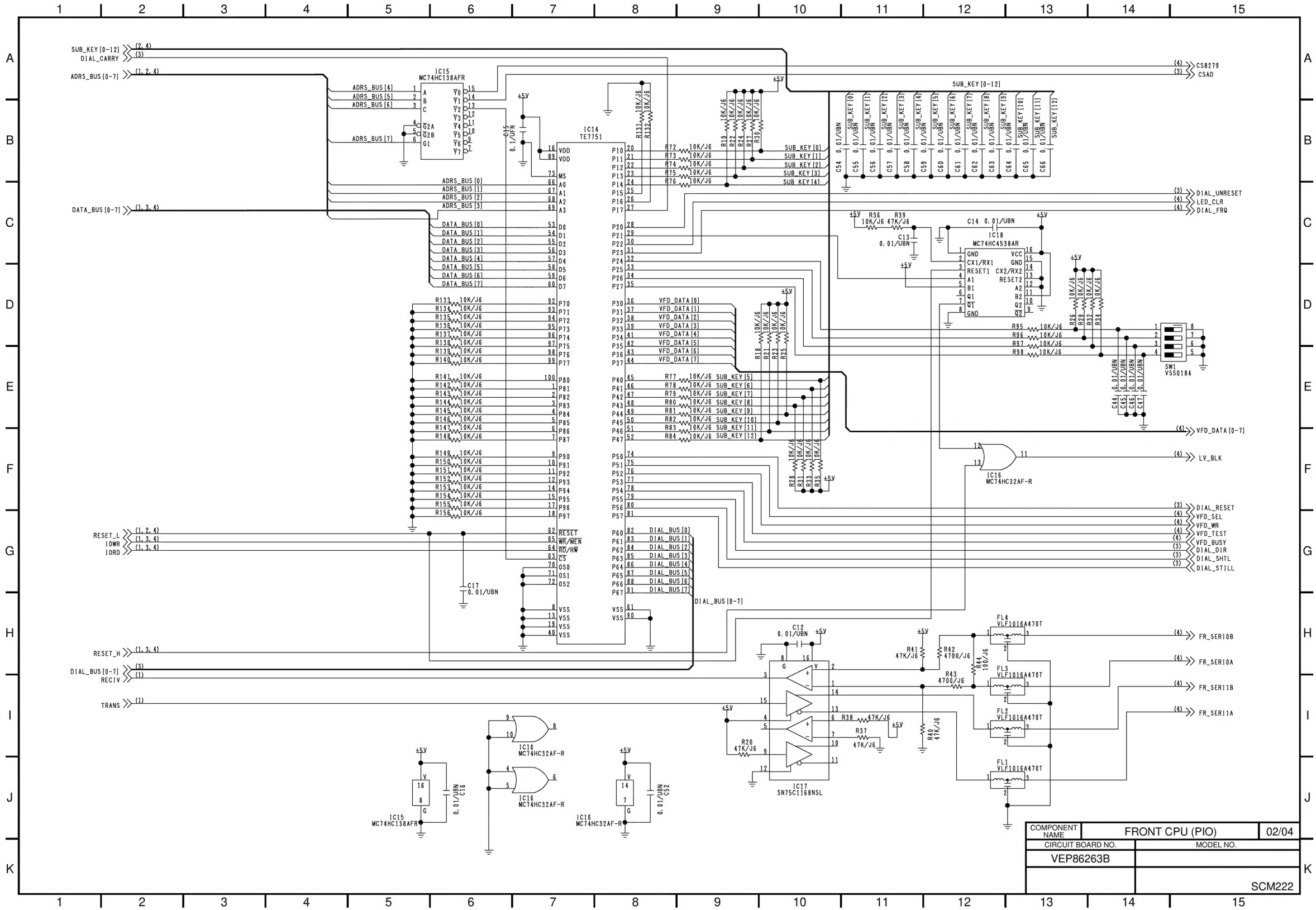
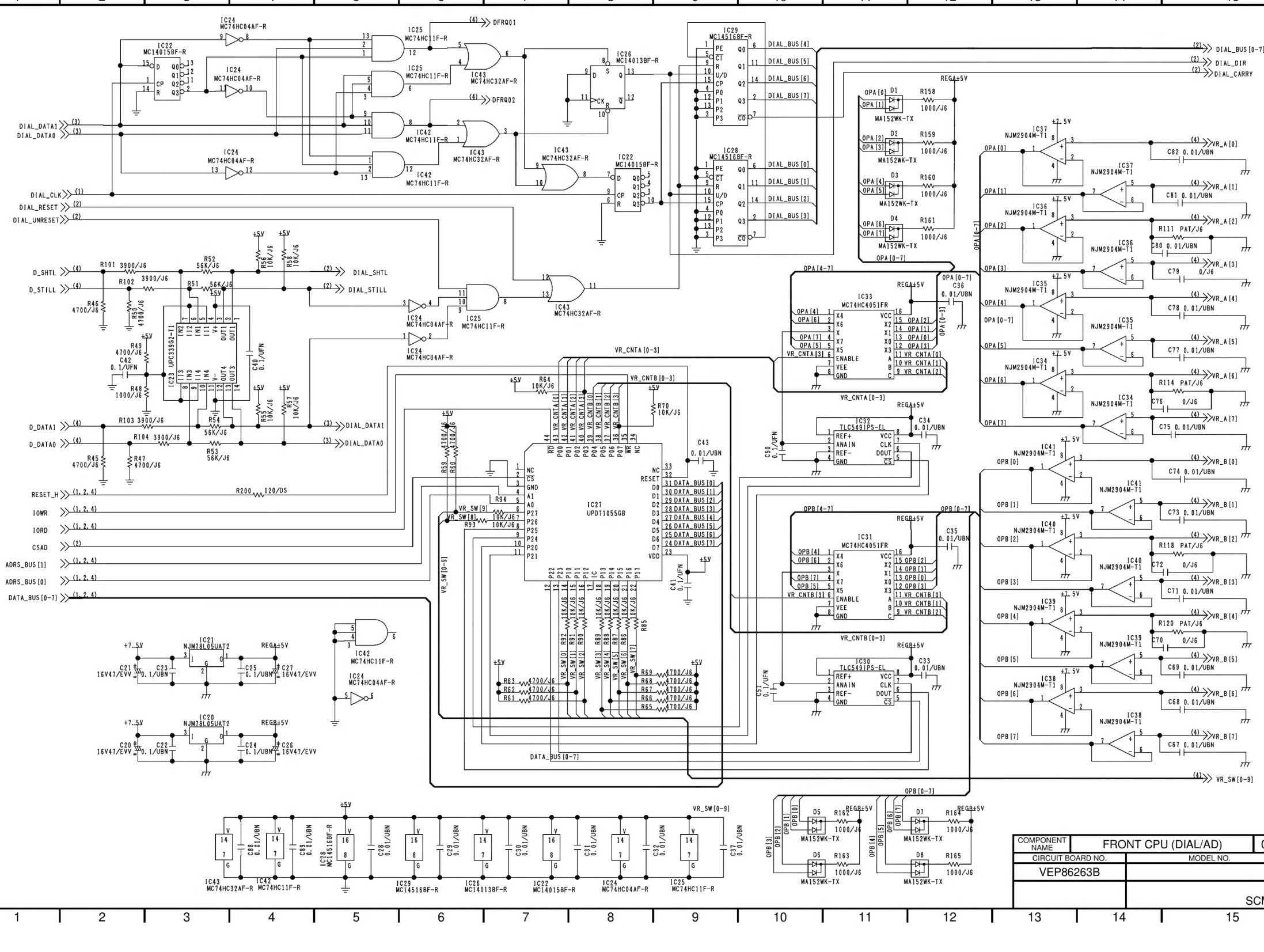
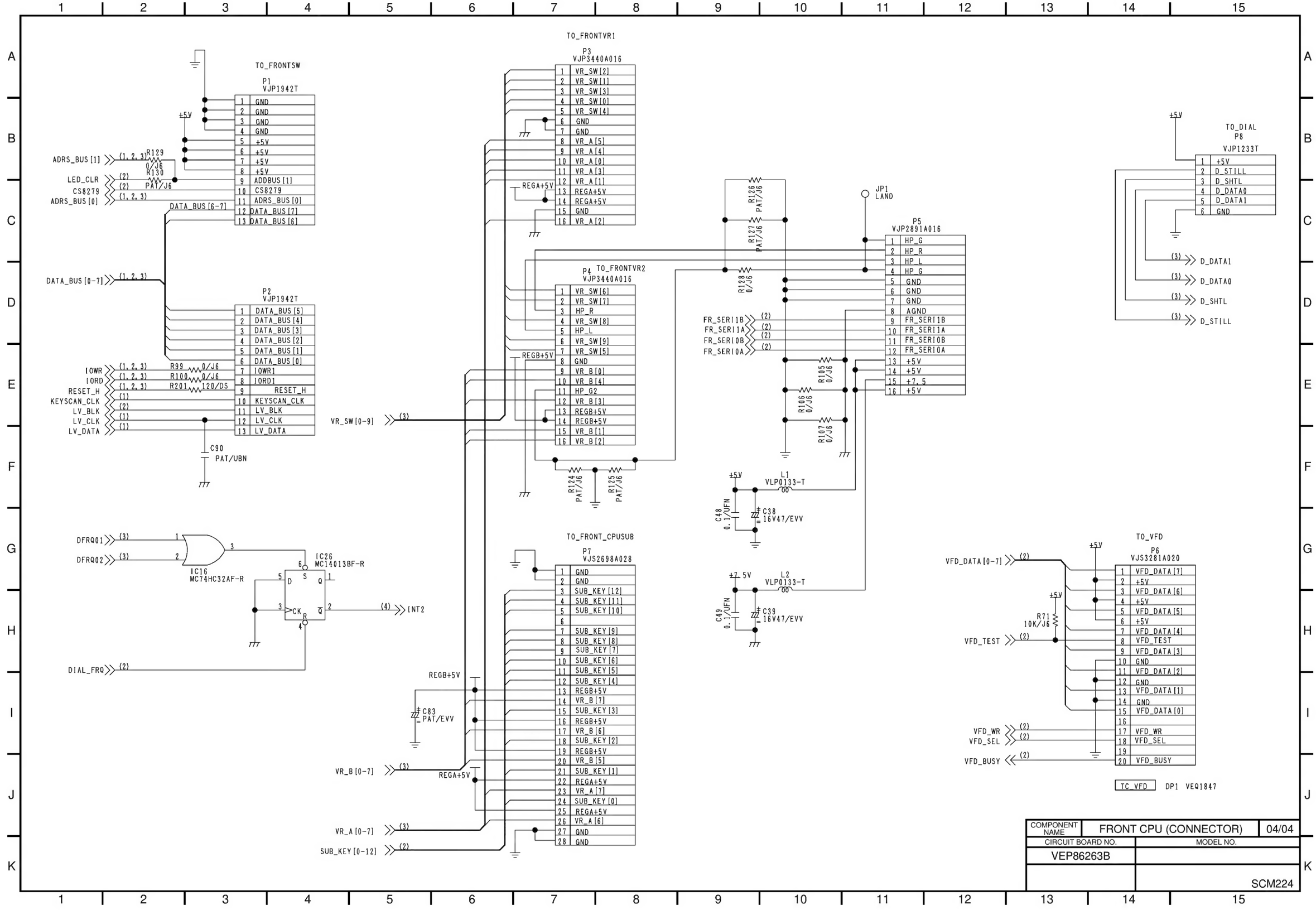

IC4 TL7705CPSB-R
VREF VCC RESIN VSENSE CT RESET GND RESET
C1 0.01/UBN
C2 50V2R2/EVV
C3 0.01/UBN
R1 2200/J6
R16 2200/J6
TP1 EYF6CU
TP2 EYF6CU
TG1 EYF6CU
+5V
(2, 3, 4) RESET_H
(2) RESET_L
(2) RECIV
(2) TRANS
IC1 HD64180ZRP10
VSS XTAL EXTAL WAIT BUSACK BUSREQ %RESET NMI INT0 INT1 INT2 ST A0 A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18/TOUT VCC
FAI RD WR LTR E ME IOE REF HALT %TEND1 DREQ1 CKS RXS/CTS1 TXS CKA1/TEND0 RXA1 TXA1 CKA0/DREQ0 RXA0 TXA0 DCD0 CTS0 RTS0 D7 D6 D5 D4 D3 D2 D1 D0 VSS
10P/UN
C4 10P/UN
C5
X1 VSX0641-B
R17 180/J6
C53 0.01/UBN
C92 PAT/UN
R2 47K/J6
R3 47K/J6
R4 47K/J6
R5 47K/J6
R6 47K/J6
R7 47K/J6
INT2 (4) R157 0/J6
ADRS_BUS [0] ADRS_BUS [1] ADRS_BUS [2] ADRS_BUS [3] ADRS_BUS [4] ADRS_BUS [5] ADRS_BUS [6] ADRS_BUS [7] ADRS_BUS [8] ADRS_BUS [9] ADRS_BUS [10] ADRS_BUS [11] ADRS_BUS [12] ADRS_BUS [13] ADRS_BUS [14] ADRS_BUS [15] ADRS_BUS [16] ADRS_BUS [17]
DATA_BUS [7] DATA_BUS [6] DATA_BUS [5] DATA_BUS [4] DATA_BUS [3] DATA_BUS [2] DATA_BUS [1] DATA_BUS [0]
10K/J6 R8 R9 R10 R11 R12 R13 R14 R15
IC_SOCKET IS1 PAT/VJS1830
C6 0.1/UFN
IC2 VSI2687
DATA_BUS [0-7]
ADRS_BUS [0-17]
IC5 74F32SJ-R1
IC13 MC74HC04AF-R
C91 PAT/UN
IC6 MC74HC161AFR
P0 P1 P2 P3 CLK Q0 Q1 Q2 Q3 RC
C84 220P/UN
C85 220P/UN
C86 220P/UN
(4) KEYSCAN_CLK
(3) DIAL_CLK
(2, 3, 4) IORD
(2, 3, 4) IOWR
(4) LV_CLK
(4) LV_DATA
ADRS_BUS [0-16]
C7 0.01/UBN
IC2 M27C100115F1
VPP A16 A15 A12 A7 A6 A5 A4 A3 A2 A1 A0 O0 O1 O2 GND
VCC PGM NC A14 A13 A8 A9 A11 OE A10 CE O7 O6 O5 O4 O3
IC_SOCKET IS2 VJS2336A032
DATA_BUS [0-2]
DATA_BUS [3-7]
C8 0.01/UBN
IC3 K6256CLG7LEL
NC A16 A14 A12 A7 A6 A5 A4 A3 A2 A1 A0 D0 D1 D2 GND
VCC A15 CE2 WE_L A13 A8 A9 A11 OE_L A10 CE1_L D7 D6 D5 D4 D3
(2, 3, 4) DATA_BUS [0-7]
(2, 3, 4) ADRS_BUS [0-17]
ADRS_BUS [17]
C11 0.01/UBN
C10 0.01/UBN
C9 0.01/UBN
IC13 MC74HC04AF-R IC6 MC74HC161AFR IC5 74F32SJ-R1

COMPONENT NAME	FRONT CPU (CPU)	01/04
CIRCUIT BOARD NO.	MODEL NO.	
VEP86263B		
		SCM221


SUB_KEY [0-12]
DIAL_CARRY
ADRS_BUS [0-7]
DATA_BUS [0-7]
RESET_L
IOWR
IORD
RESET_H
DIAL_BUS [0-7]
RECIV
TRANS
IC15 MC74HC138AFR
IC14 TE7751
IC18 MC74HC4538AR
IC16 MC74HC32AF-R
IC17 SN75C1168NSL
SW1 VSS0184
FL1 VLF1016A470T
FL2 VLF1016A470T
FL3 VLF1016A470T
FL4 VLF1016A470T
CS8279
CSAD
DIAL_UNRESET
LED_CLR
DIAL_FRQ
VFD_DATA [0-7]
LV_BLK
DIAL_RESET
VFD_SEL
VFD_WR
VFD_TEST
VFD_BUSY
DIAL_DIR
DIAL_SHTL
DIAL_STILL
FR_SERI0B
FR_SERI0A
FR_SERI1B
FR_SERI1A
COMPONENT NAME
FRONT CPU (PIO)
02/04
CIRCUIT BOARD NO.
VEP86263B
MODEL NO.
SCM222



COMPONENT NAME	FRONT CPU (DIAL/AD)	03/04
CIRCUIT BOARD NO.	MODEL NO.	
VEP86263B		
		SCM223


TO_FRONTSW
P1
VJP1942T
GND
+5V
ADDBUS [1]
CS8279
ADRS_BUS [0]
ADRS_BUS [7]
ADRS_BUS [6]
ADRS_BUS [1]
LED_CLR
CS8279
ADRS_BUS [0]
R129 0/J6
R130 PAT/J6
DATA_BUS [6-7]
DATA_BUS [0-7]
P2
VJP1942T
DATA_BUS [5]
DATA_BUS [4]
DATA_BUS [3]
DATA_BUS [2]
DATA_BUS [1]
DATA_BUS [0]
IOWR1
IORD1
RESET_H
KEYSCAN_CLK
LV_BLK
LV_CLK
LV_DATA
IOWR
IORD
RESET_H
R99 0/J6
R100 0/J6
R201 120/DS
C90 PAT/UBN
TO_FRONTVR1
P3
VJP3440A016
VR_SW [2]
VR_SW [1]
VR_SW [3]
VR_SW [0]
VR_SW [4]
GND
VR_A [5]
VR_A [4]
VR_A [0]
VR_A [3]
VR_A [1]
REGA+5V
VR_A [2]
TO_FRONTVR2
P4
VJP3440A016
VR_SW [6]
VR_SW [7]
HP_R
VR_SW [8]
HP_L
VR_SW [9]
VR_SW [5]
REGB+5V
VR_B [0]
VR_B [4]
HP_G2
VR_B [3]
VR_B [1]
VR_B [2]
VR_SW [0-9]
R124 PAT/J6
R125 PAT/J6
R126 PAT/J6
R127 PAT/J6
R128 0/J6
JP1
LAND
P5
VJP2891A016
HP_G
HP_R
HP_L
HP_G
GND
AGND
FR_SERI1B
FR_SERI1A
FR_SERI0B
FR_SERI0A
+5V
+7.5
FR_SERI1B
FR_SERI1A
FR_SERI0B
FR_SERI0A
R105 0/J6
R106 0/J6
R107 0/J6
L1
VLP0133-T
C38 16V47/EVV
C48 0.1/UFN
L2
VLP0133-T
C39 16V47/EVV
C49 0.1/UFN
TO_DIAL
P8
VJP1233T
+5V
D_STILL
D_SHTL
D_DATA0
D_DATA1
GND
D_DATA1
D_DATA0
D_SHTL
D_STILL
DFRQ01
DFRQ02
IC16
MC74HC32AF-R
IC26
MC14013BF-R
INT2
DIAL_FRQ
C83 PAT/EVV
TO_FRONT_CPUSUB
P7
VJS2698A028
GND
SUB_KEY [12]
SUB_KEY [11]
SUB_KEY [10]
SUB_KEY [9]
SUB_KEY [8]
SUB_KEY [7]
SUB_KEY [6]
SUB_KEY [5]
SUB_KEY [4]
REGB+5V
VR_B [7]
SUB_KEY [3]
VR_B [6]
SUB_KEY [2]
VR_B [5]
SUB_KEY [1]
REGA+5V
VR_A [7]
SUB_KEY [0]
VR_A [6]
VR_B [0-7]
VR_A [0-7]
SUB_KEY [0-12]
TO_VFD
P6
VJS3281A020
VFD_DATA [7]
VFD_DATA [6]
VFD_DATA [5]
VFD_DATA [4]
VFD_DATA [3]
VFD_DATA [2]
VFD_DATA [1]
VFD_DATA [0]
VFD_TEST
VFD_WR
VFD_SEL
VFD_BUSY
VFD_DATA [0-7]
R71 10K/J6
TC_VFD
DP1 VEQ1847
COMPONENT NAME
FRONT CPU (CONNECTOR)
04/04
CIRCUIT BOARD NO.
MODEL NO.
VEP86263B
SCM224